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Dated: June 17, 2003

Signature:

*Susan Hunter*  
(Susan Hunter)

#9158  
6/23/03  
Docket No.: HO-P02086US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
James R. Lupski, et al

Application No.: 10/021,955

Filed: December 13, 2001

Group Art Unit: 1637

Examiner: S. Chunduru

(10026309)

For: DEFECTS IN PERIAXIN ASSOCIATED WITH  
MYELINOPATHIES

**RESPONSE TO RESTRICTION REQUIREMENT AND  
PRELIMINARY AMENDMENT**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This is in response to the restriction requirement set forth in the Office Action mailed February 19, 2003. A Petition for Extension of Time of Three Months and the requisite fee are filed herewith.

The Examiner has required restriction between the following:

Group I (Claims 1-13), drawn to a method of diagnosing myelinopathy in an individual based on an alteration in a periaxin polynucleotide, requiring SEQ ID NOS:1-77;

Group II (Claims 14, 32-34), drawn to a composition of matter and a kit comprising a polynucleotide, requiring SEQ ID NOS:3-26;

Group III (Claims 15-16), drawn to a composition of matter comprising a polypeptide;

Group IV (Claims 17-20), drawn to a method of identifying or screening a compound agent for treating a myelinopathy;

Group V (Claims 21-23), drawn to a method of identifying an upregulator or a drug activity;

Group VI (Claims 24-26), drawn to a method of treating an organism comprising a therapeutically effective amount of a nucleic acid sequence;

Group VII (Claims 27-28), drawn to a method of treating an organism comprising a therapeutically effective amount of an amino acid sequence;

Group VIII (Claims 29-31), drawn to a method of treating an organism comprising a therapeutically effective amount of a compound; and

Group IX (Claims 35-40), drawn to a method of detecting the presence or absence of a mutation associated with a myelinopathy, requiring SEQ ID NOS:1-77.

Applicants, represented by Melissa L. Sistrunk, telephoned Examiner Chunduru on March 27, 2003 regarding grouping of the claims. Applicants notified the Examiner that Group I drawn to Claims 1-13 erroneously grouped claims directed to polypeptide sequences, and suggested Group I should include only Claims 1-7. The Examiner agreed.

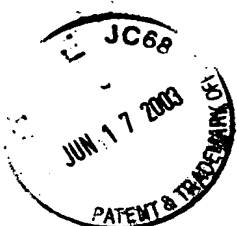
Applicants also discussed with the Examiner the nature of restriction between Group I and Group IX, and the Examiner suggested addressing the issue in the response.

Applicants traverse the restriction between Group I and Group IX. The claims in Group I are directed to a method of diagnosing myelinopathy in an individual by obtaining a sample containing nucleic acid from the individual; and assaying the sample for an alteration in a periaxin polynucleotide, wherein the alteration is associated with the myelinopathy. Group IX is directed to a method of detecting the presence or absence of a mutation associated with a myelinopathy by isolating a test periaxin nucleic acid from a subject, comparing the test nucleic acid to a reference wild-type periaxin polynucleotide; and determining the differences between the test nucleic acid and the reference wild-type periaxin polynucleotide, wherein the differences are mutations in the periaxin polynucleotide of the subject, and wherein the presence of a mutation in the periaxin polynucleotide of the subject is associated with the myelinopathy in the subject.

Applicants respectfully assert that the two groups regard the same invention, with substantially similar steps. Both independent claims, and therefore corresponding Groups, regard obtaining a periaxin polynucleotide and determining whether or not a mutation is present in the periaxin polynucleotide, wherein a mutation in the periaxin polynucleotide is associated with a myelinopathy. Applicants suggest that there would be no undue burden to employ searches for both Groups, as both Groups are so similar in nature. Therefore, Applicants respectfully request consolidation of Group I (the correct one, with only the polynucleotide sequences) and Group IX.

If the Examiner agrees, then Applicants select new Group I/Group IX and elect as a species 247ΔC. If the Examiner does not agree, then Applicants select Group IX and elect as a species 247ΔC. Upon the request of the Examiner, Applicants also select the species SEQ ID NO:76 as the specific nucleotide sequence for examination purposes only.

Applicant reserves the right to pursue non-elected claims in future prosecution and will cancel any remaining non-elected claims upon resolving this grouping issue.



06-18-03

1637#

PTO/SB/21 (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/021,955
	Filing Date	December 13, 2001
	First Named Inventor	James R. Lupski
	Art Unit	1637
	Examiner Name	S. Chunduru
Total Number of Pages in This Submission	Attorney Docket Number	HO-P02086US1

**ENCLOSURES (check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input checked="" type="checkbox"/> Fee Attached - \$465	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	Response to Restriction Requirement; Return Postcard
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

Remarks

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	FULBRIGHT & JAWORSKI L.L.P. Melissa L. Sistrunk
Signature	
Date	June 17, 2003

**Transmittal**

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